

Fig. 1

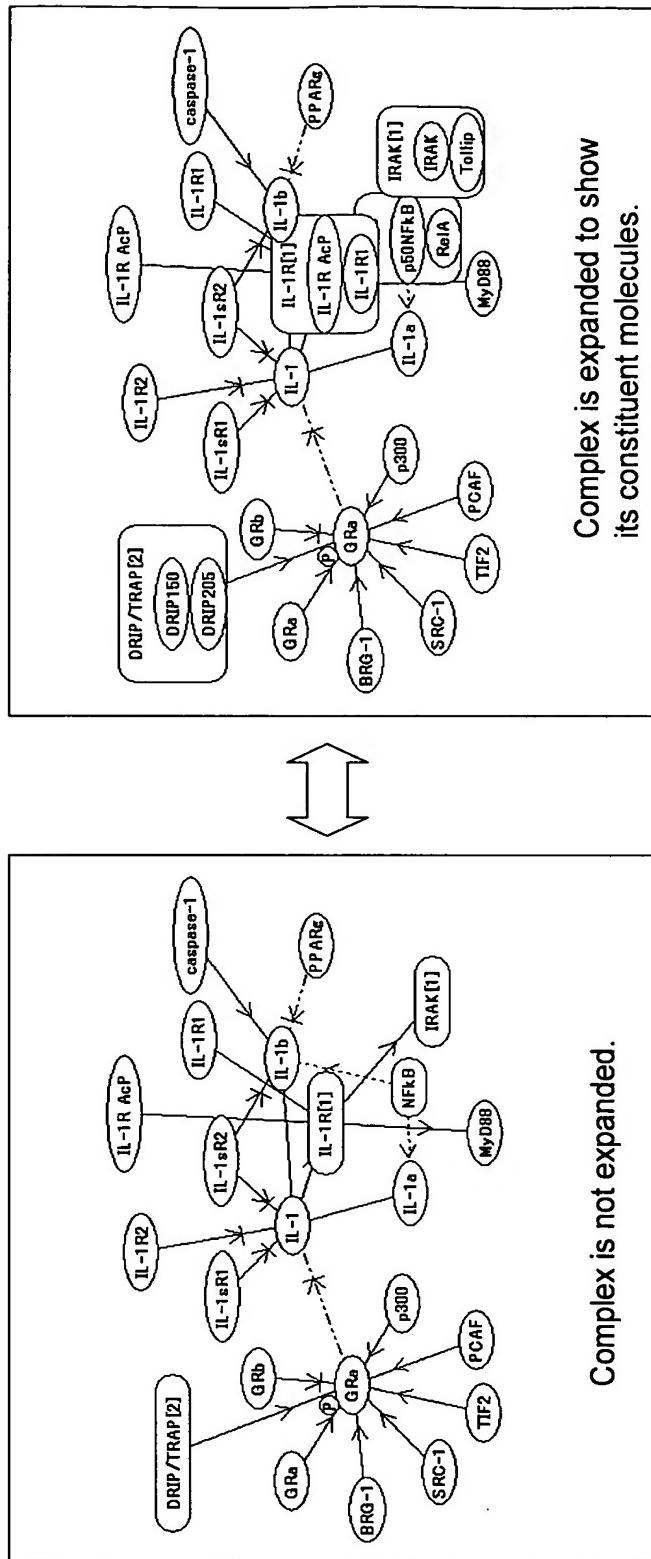


Fig.2

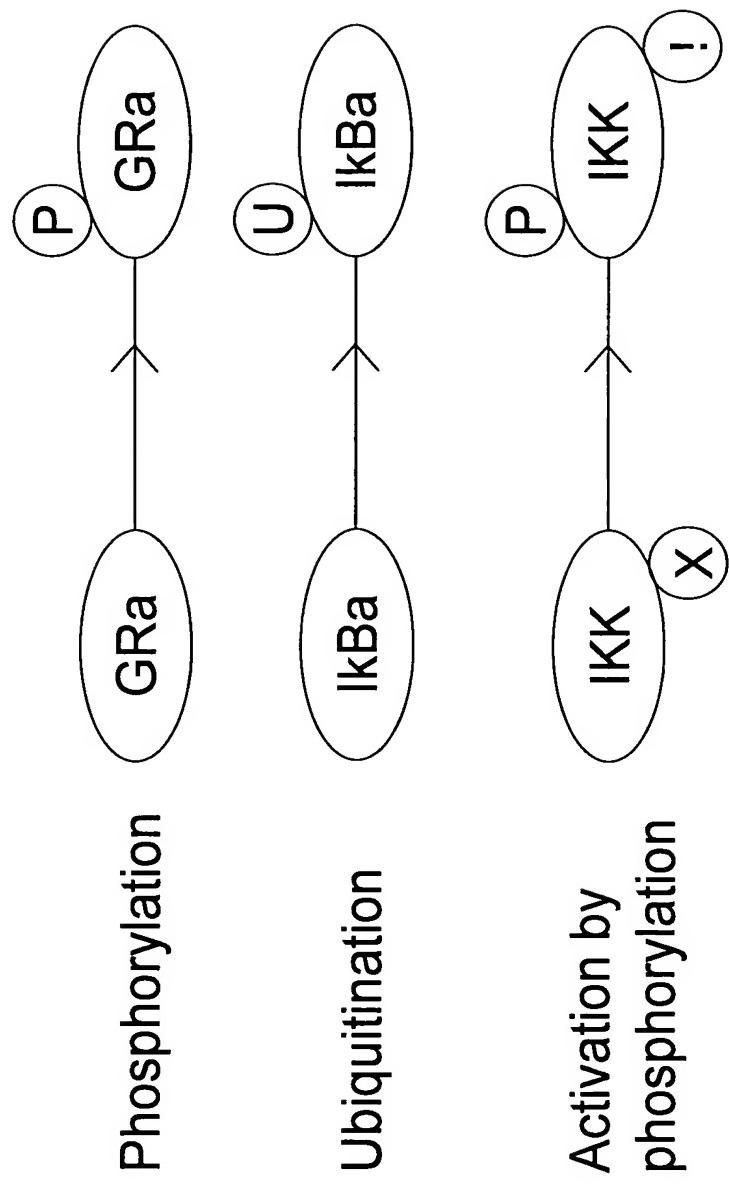


Fig.3

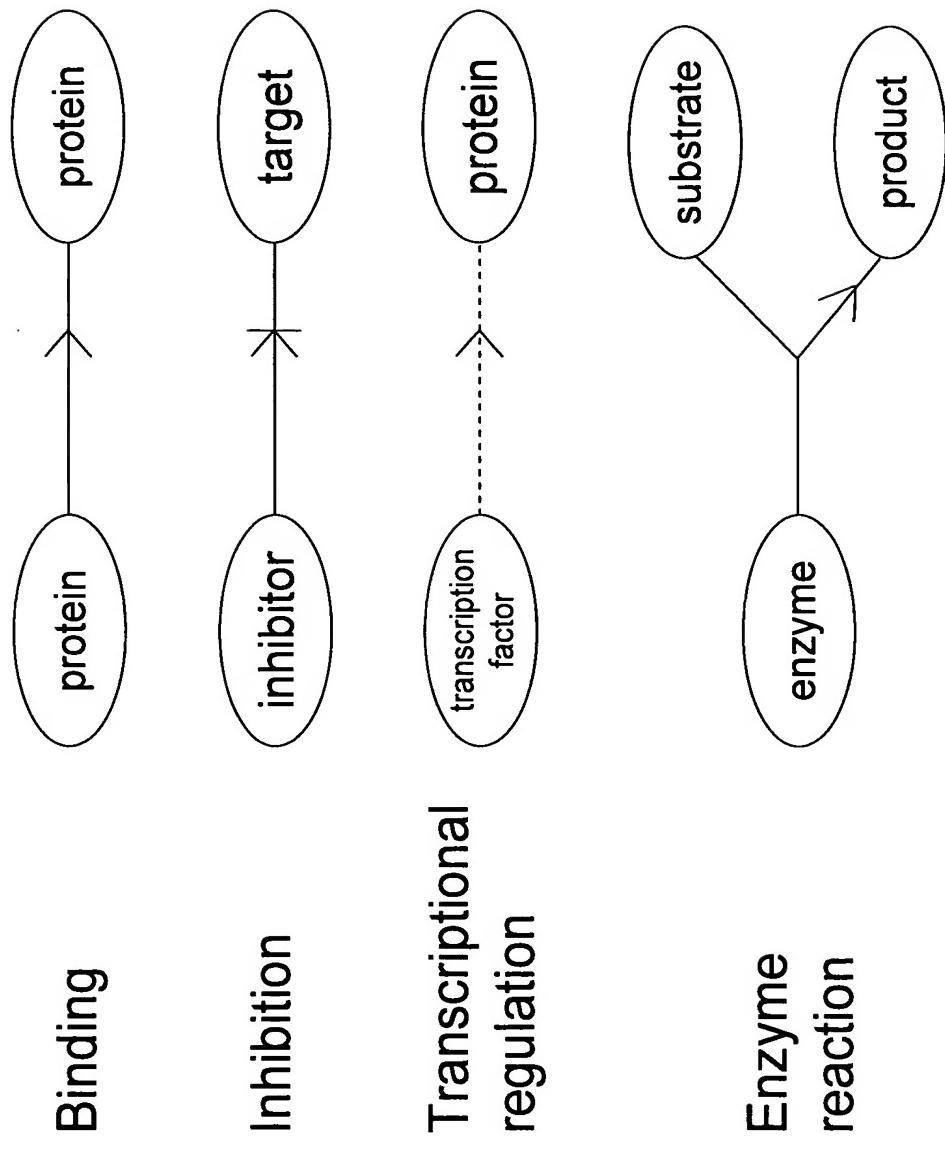


Fig.4

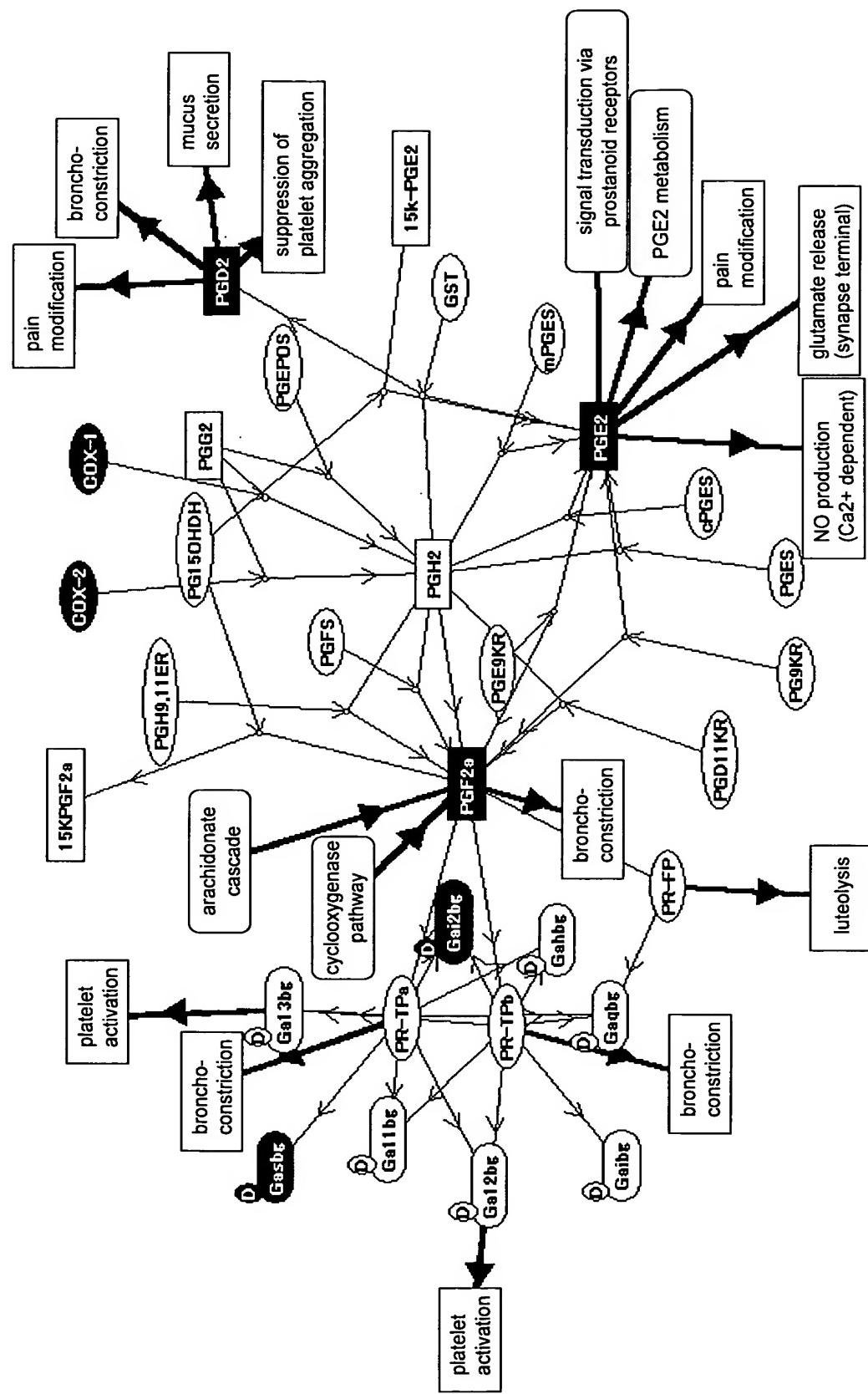


Fig.5

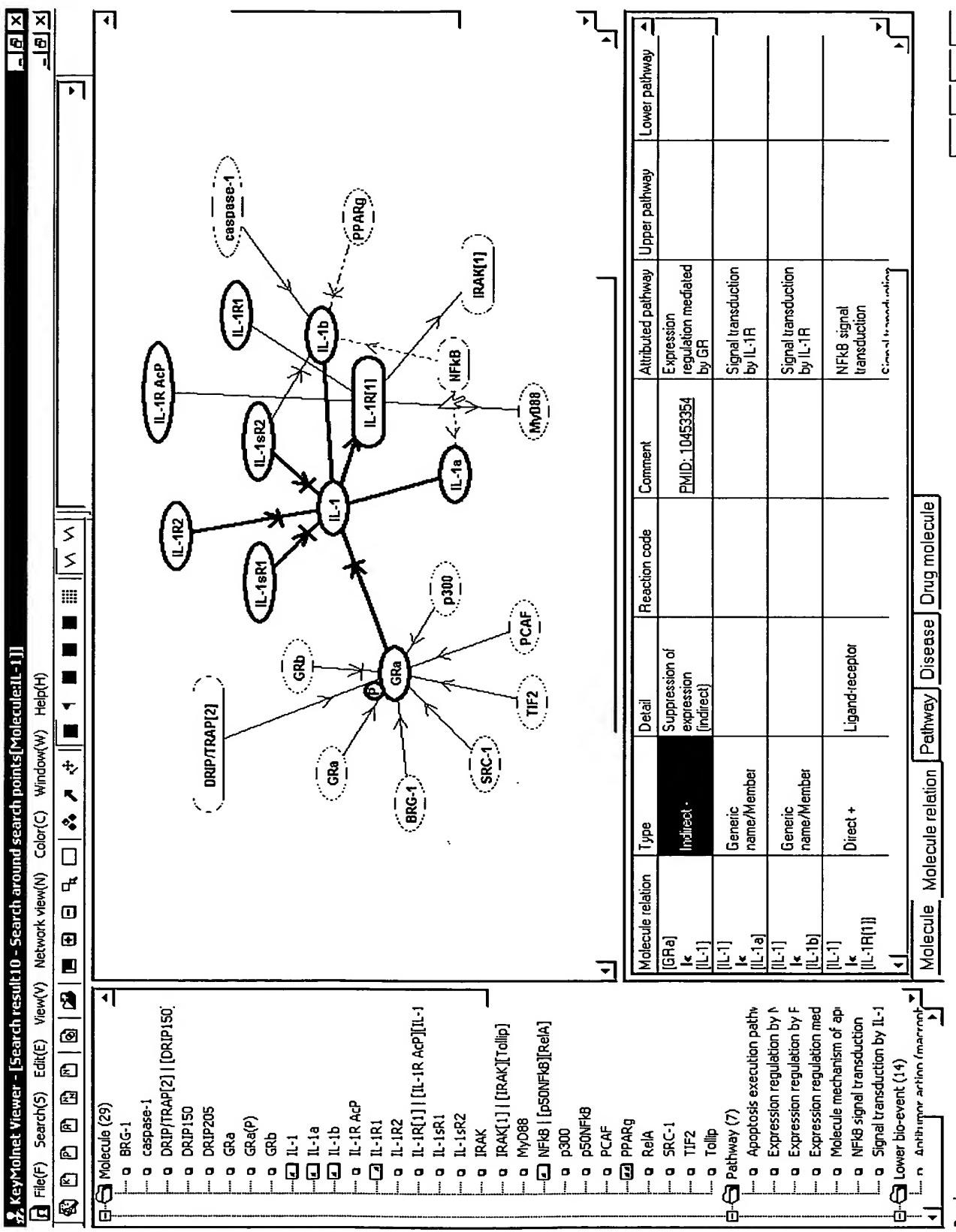


Fig.6

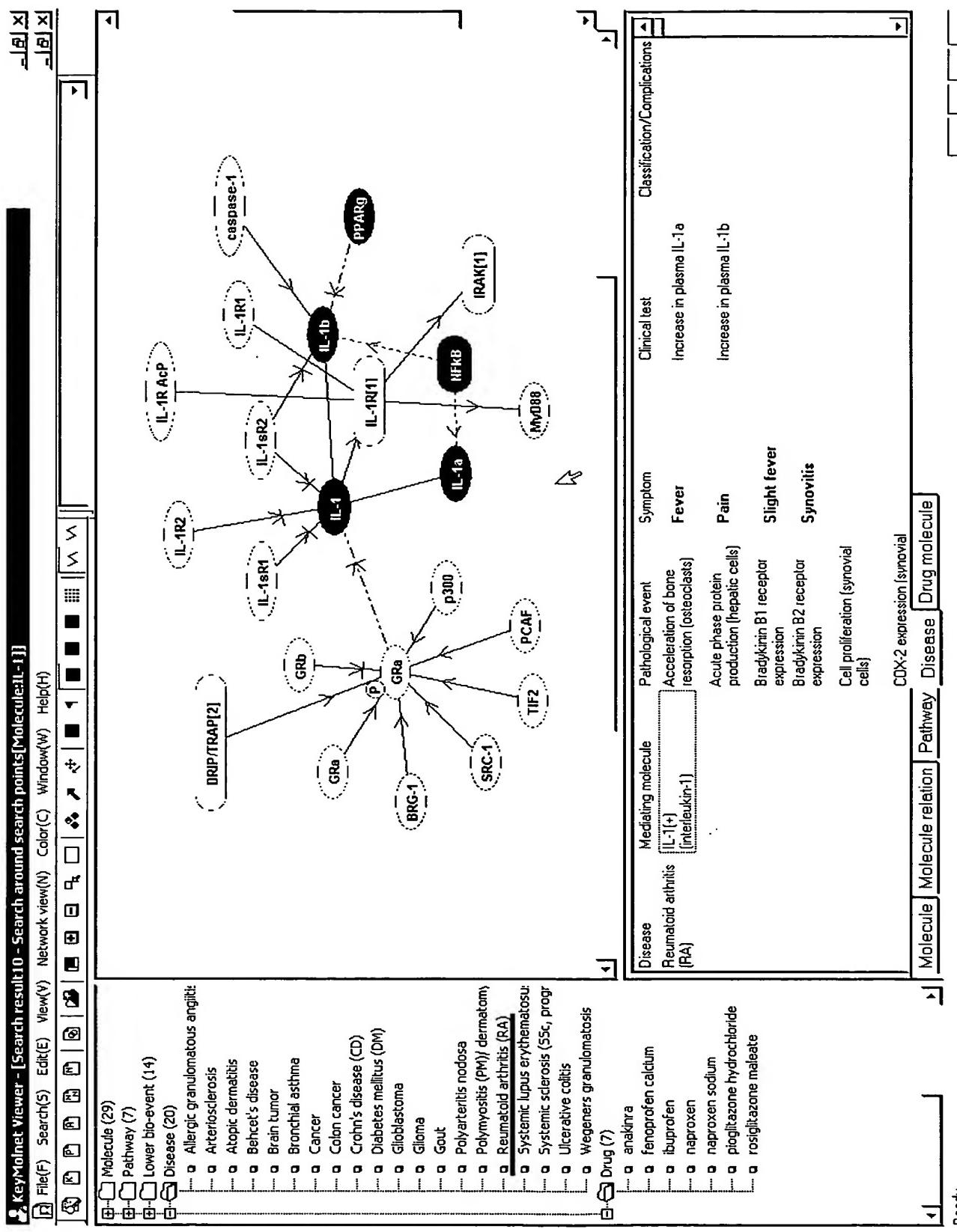


Fig. 7

KeyMolnet Viewer - [Search result4 - Search around search points[Molecule:AngI]]

File(F) Search(S) Edit(E) View(V) Network view(N) Color(C) Setting(R) Window(W) Help(H)

Molecule (16)

- Pathway (8)
- Lower bio-event
- Disease (1)
 - Diabetes mellitus (DM)
- Drug (3)
 - acetohexamide
 - biotin
 - bufomarin hydrochloride
 - calcium loopentenate
 - chlorpropamide
 - citicoline
 - epalrestat
 - estramustine phosphate sodium
 - gamma-aminobutyric acid
 - glbenclamide
 - gliclazide
 - glimipride
 - glucagon
 - glyburazole
 - glycipyramide
 - ifenprodil tartrate
 - insulin
 - insulin aspart/genetical record
 - insulin lispro/genetical record
 - mazindol
 - mecasermin/genetical record
 - meclofenoxate hydrochloride
 - metformin hydrochloride
 - nateglinide
 - nicergoline
 - ozagrel sodium
 - pentamidine isetionate
 - piglitazone hydrochloride
 - protirelin tartrate
 - taltirelin hydrate
 - tolbutamide

L-ID2DH

Fru

GlcK

Glc6P

Glc

HK

UDP-Gal

sorbitol

lactose

lactoseS

ALDR

6PYRH4P

6LACH4P

SPR

H4BP

Indication

Effect

Mechanism

Drug name	Synonym	Target molecule	Reference	Indication	Effect	Mechanism	Side effect
epalrestat		ALDR(-) (Aldose reductase)	In(+) D(+) D(+)	Diabetes mellitus	Improvement of conduction velocity of motor nerve	Inhibition of aldose reductase	
			NADRE(+) (Noradrenaline)		Suppression of abnormality in R-R interval of electrocardiogram	Suppression of sorbitol accumulation	
			sorbito(-) (Sorbitol)		Improvement of vascular flow in nerve	Amelioration of lowering of norepinephrine turn-over in heart	
					Suppression of lowering of myoinositol in nerve	Suppression of lowering of density	

Molecule Molecule relation Pathway Disease Drug molecule

Fig. 8

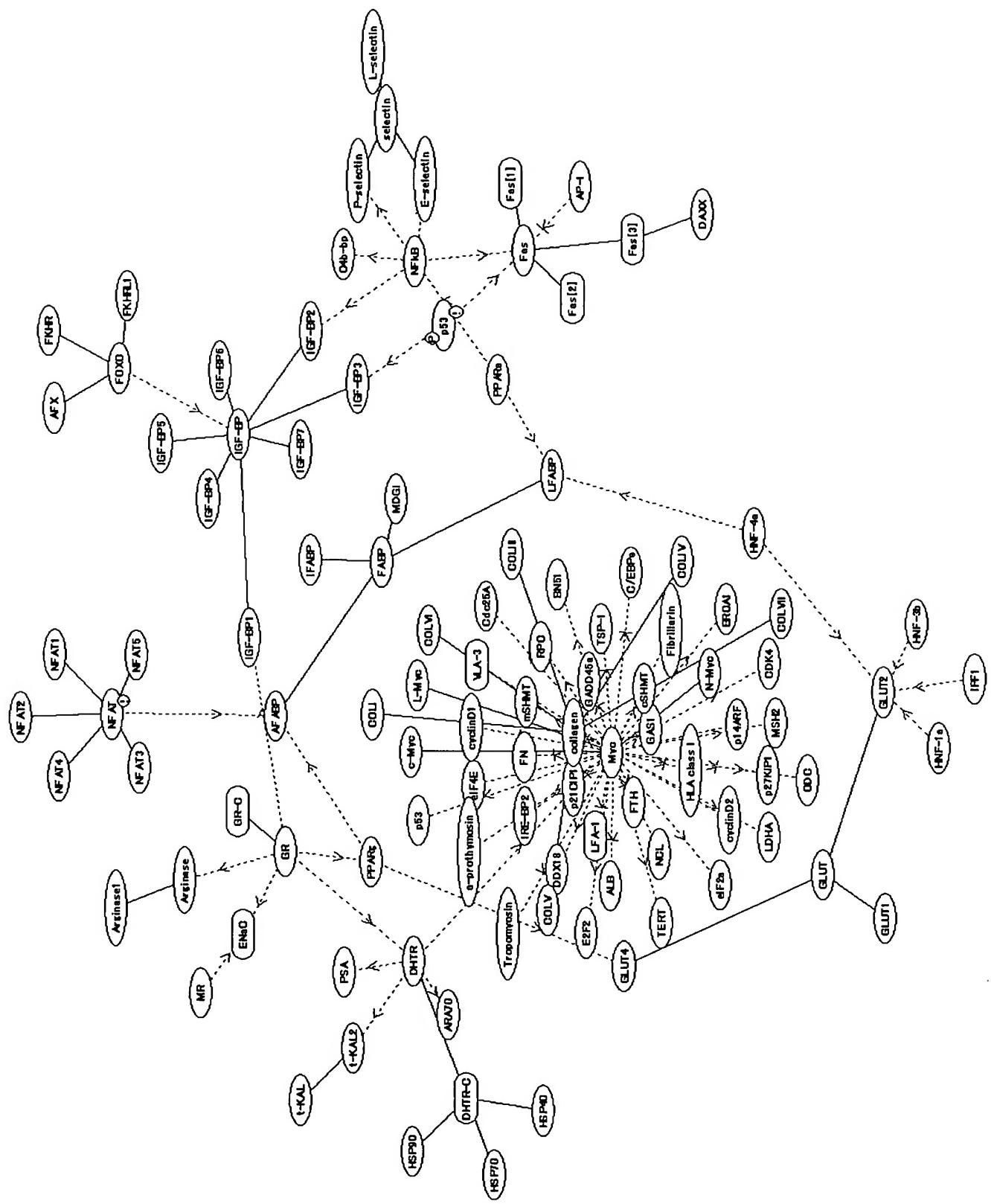
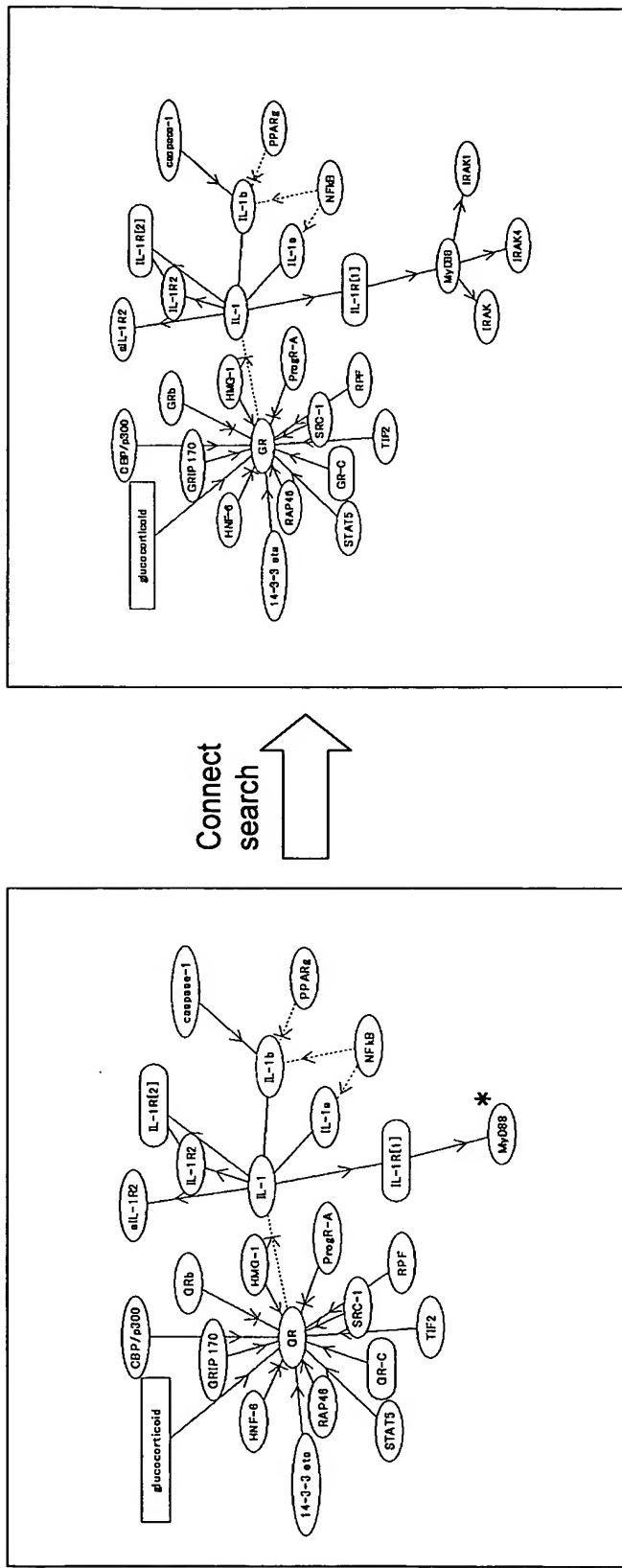


Fig. 9

Fig. 10



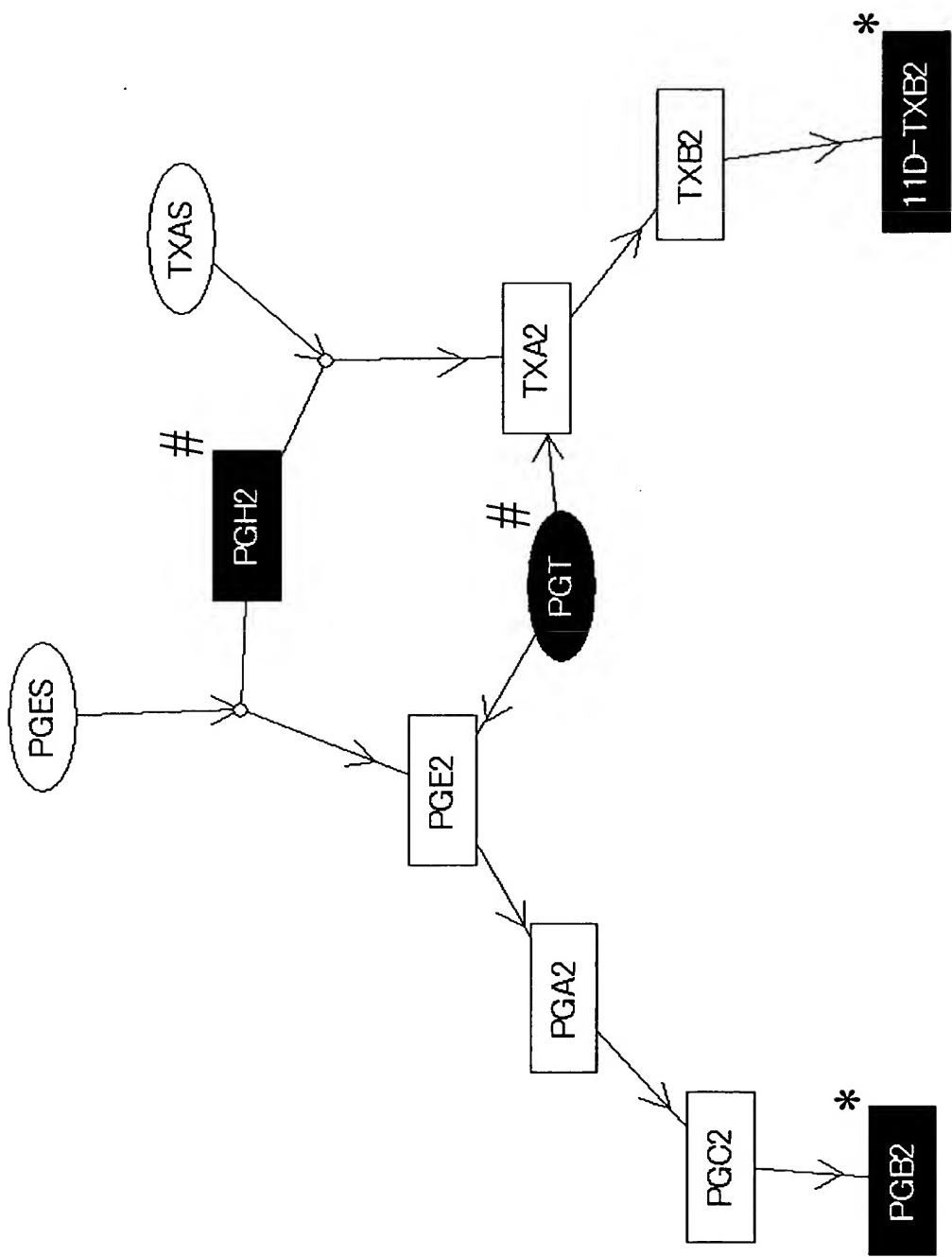


Fig. 11

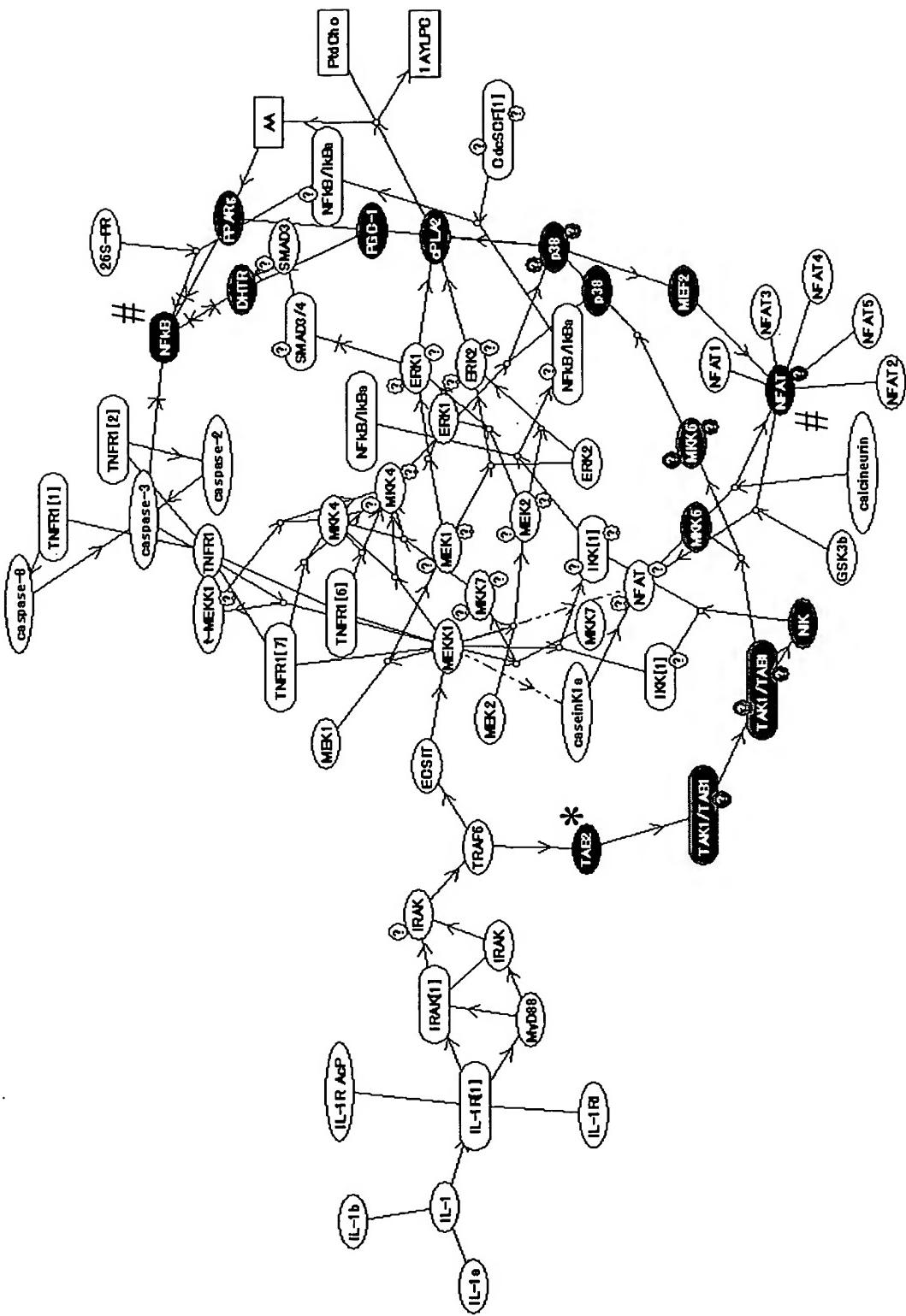


Fig. 12

Fig. 13

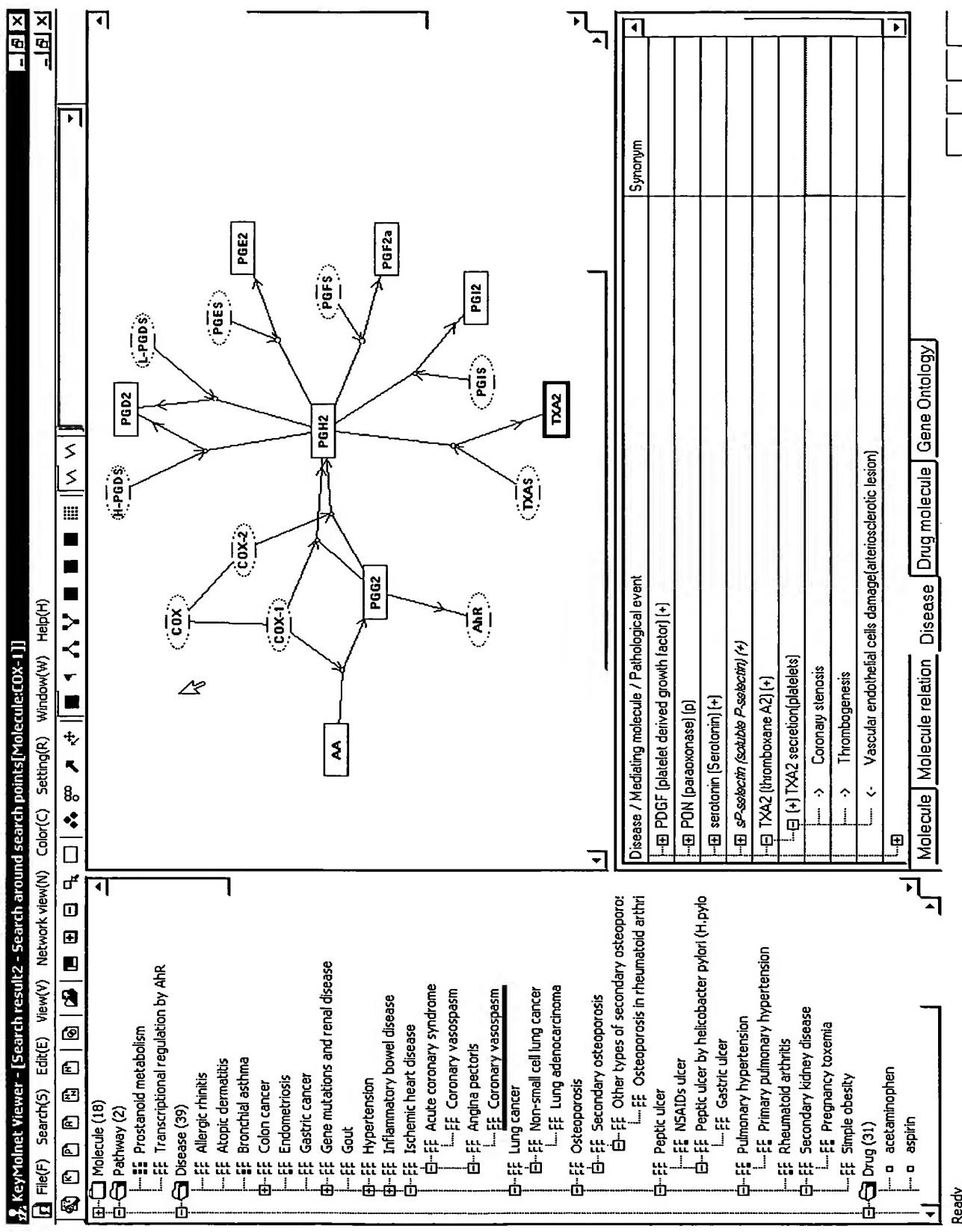
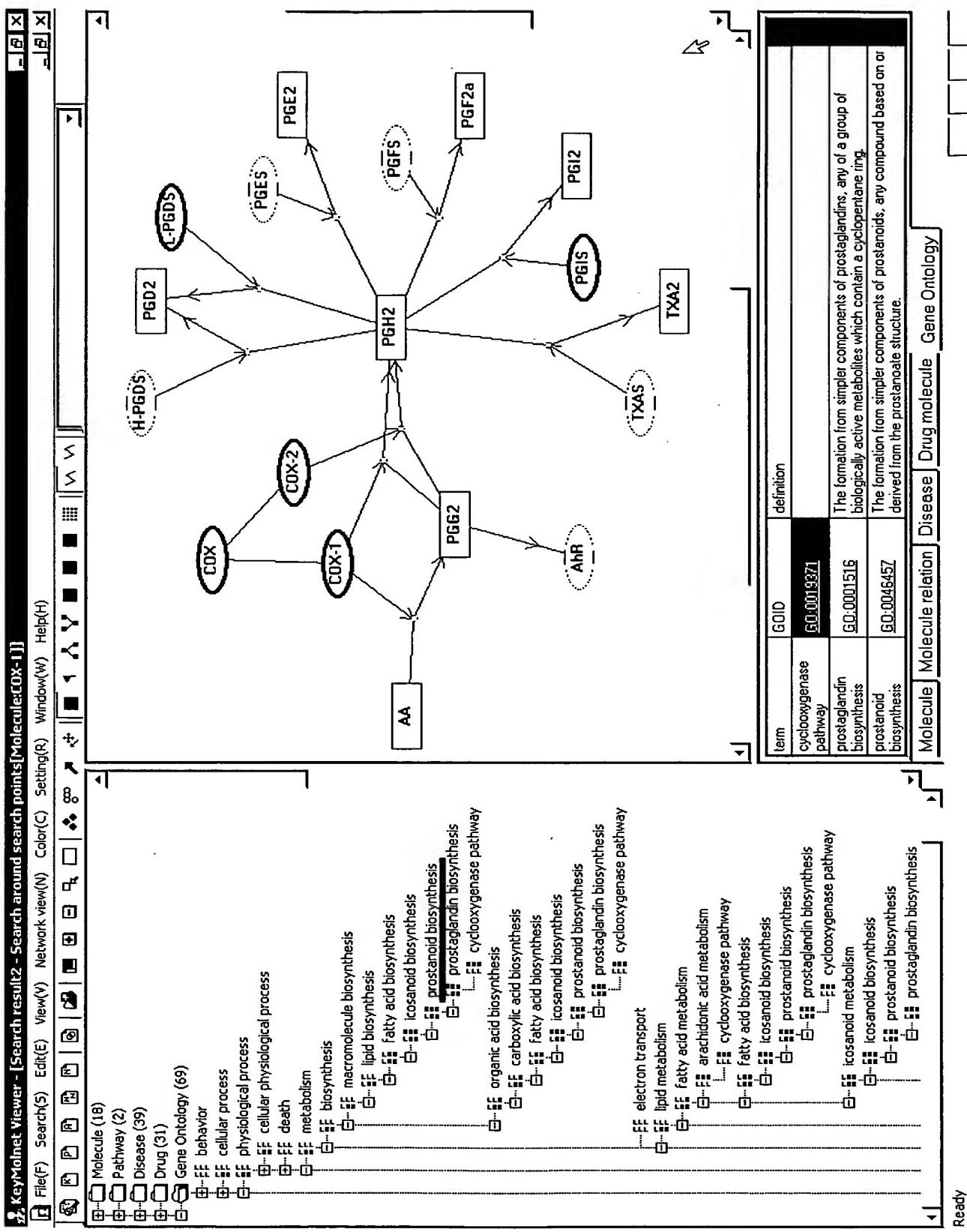


Fig. 14



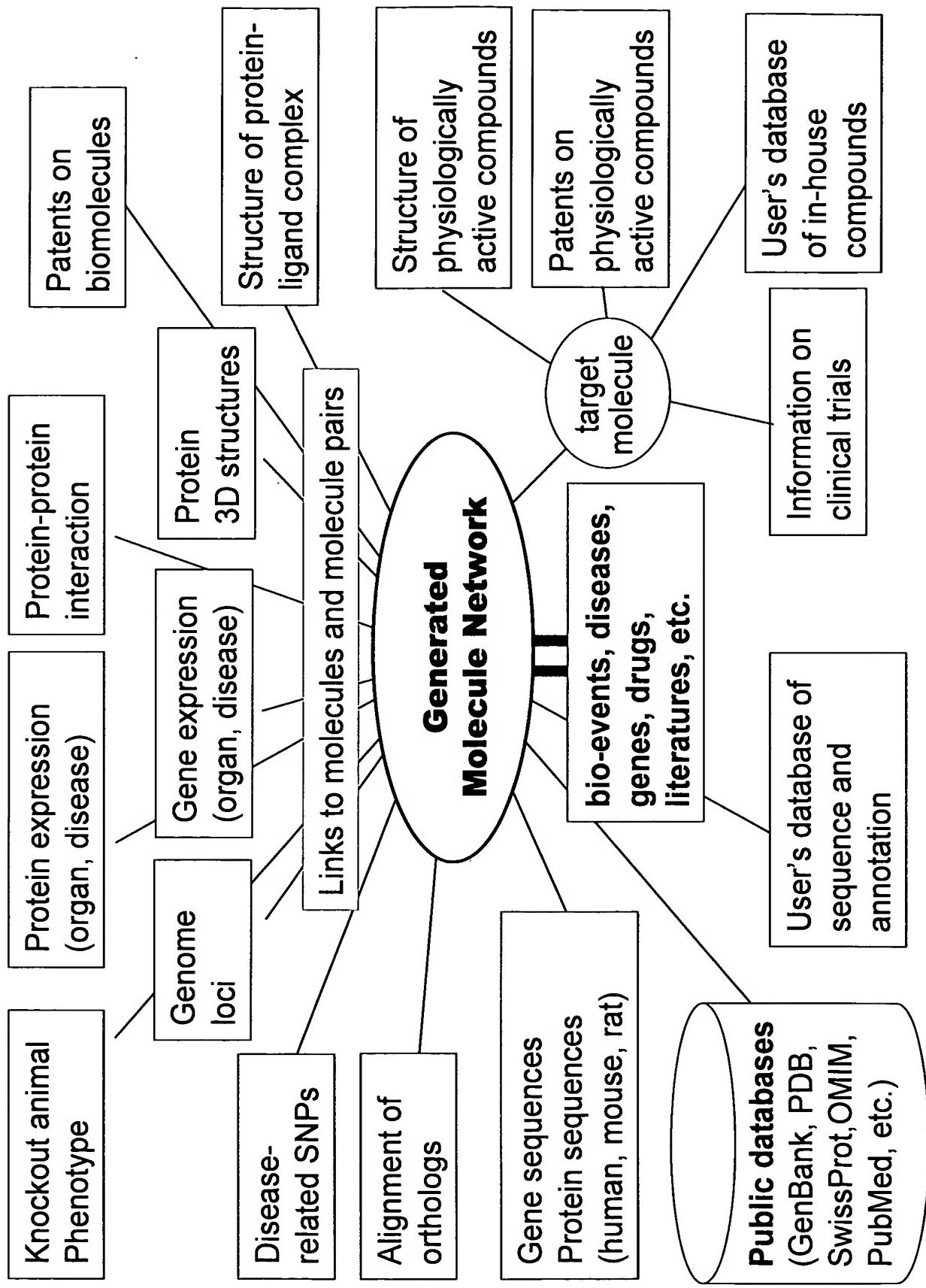


Fig. 15